

CLAIMS:

1. A shutter opening/closing apparatus comprising:
a follower member configured to be engaged, at an opening of a cartridge, with a portion of a drive member driven in the cartridge for opening or closing a shutter provided for the cartridge; and
a cam mechanism limiting a movement of the follower member so as to avoid contact of the follower member to the opening of the cartridge at a time when the engagement between the follower member and the portion of the drive member is released.
2. A shutter opening/closing apparatus comprising:
a follower member configured to be engaged, at an opening of a cartridge, with a portion of a drive member driven in the cartridge for opening or closing a shutter provided for the cartridge; and
a cam mechanism limiting a movement of the follower member at a time when the cartridge is loaded and disposed between the follower member and the cartridge at a position at which the follower member does not engage with the portion of the drive member.
3. The shutter opening/closing apparatus according to claim 1 or 2, wherein the cam member has an inclination and the follower member is limited in the movement thereof so as to be apart from the portion of the drive member along the inclination of the cam member at the time when the engagement between the follower member and the portion of the drive member is released.
4. The shutter opening/closing apparatus according to claim 1 wherein the follower member includes a shaft sliding along the cam

mechanism through a relative movement therebetween; and

a protruded portion formed at one end of the shaft so as to be engaged with the portion of the drive member.

5. The shutter opening/closing apparatus according to claim 4, wherein the shaft is provided, at an outer peripheral portion thereof, with a rotating member to be rotatable.

6. The shutter opening/closing apparatus according to claim 4 or 5, wherein the shaft has a center positioned in a direction apart from the opening of the cartridge than a front end of the cam mechanism.

7. The shutter opening/closing apparatus according to claim 1, wherein the cam mechanism is formed with inclining surfaces formed to portions near both ends of the opening of the cartridge so as to guide the follower member in a direction apart from the portion of the drive member at the time when the engagement between the follower member and the portion of the drive member is released.

8. An information reproducing apparatus comprising;
a shutter opening/closing apparatus according to any one of claims 1 to 7; and

reproducing means for reproducing an information of a recording medium accommodated in the cartridge.